

Datasheet for ABIN7072403

Recombinant anti-SLC3A2 antibody



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1 Image

Overview

Quantity:	200 µg
Target:	SLC3A2
Reactivity:	Human
Host:	Mouse
Antibody Type:	Recombinant Antibody
Clonality:	Monoclonal
Conjugate:	This SLC3A2 antibody is un-conjugated
Application:	Immunofluorescence (IF), ELISA, Activation (Act), Blocking Reagent (BR)

Product Details

Purpose:	Anti-CD98 heavy chain [HBJ127], Mouse IgG1, kappa
Immunogen:	HBJ127 was obtained from hybridomas generated by the fusion of mouse myeloma cells and spleen cells from mice which had been immunized with T24 hyman bladder cancer cells.
Clone:	HBJ127
Isotype:	IgG1 kappa
Specificity:	HBJ127 binds to the CD98 heavy chain at an epitope consisting of residues AFS (aa 442-444) (Itoh et al, 2007). The antibody has not been shown to cross-react with other species. CD98 is expressed at high levels on monocytes and at very low level on peripheral blood T and B lymphocytes, splenocytes, NK cells and granulocytes. CD98 is a disulfide-linked and glycosylated type II integral membrane protein. This protein has roles in normal and neoplastic cell growth and is required for the function of light chain amino acid transporters. It is also

Product Details

involved in sodium-independent transport of large neutral amino acids and in guiding and targeting LAT1 and LAT2 to the plasma membrane. When associated with SLC7A6 or SLC7A7, CD98 acts as an arginine/glutamine exchanger.

Characteristics: Original Species of Ab: Mouse
Original Format of Ab: IgG1

Purification: Protein A affinity purified

Target Details

Target: SLC3A2

Alternative Name: CD98 heavy chain ([SLC3A2 Products](#))

Background: 4F2hc, HBJ 127, HBJ-127, CD98, GP125, 4F2 cell-surface antigen heavy chain, 4F2 heavy chain antigen, Lymphocyte activation antigen 4F2 large subunit, Solute carrier family 3 member 2

UniProt: [P08195](#)

Application Details

Application Notes: HBJ127 can inhibit lymphocyte activation and proliferation in vitro (Yagita and Hashimoto, 1986), as well as inhibit the growth of human bladder tumors (Yagita, 1986). The antibody also mediates the inhibition of DNA synthesis of Con A-stimulated lymphocytes at concentrations greater than 13 µg/mL, the inhibition of mAb 6-1-13-induced c-src expression and the inhibition of mAb 6-1-13-induced polykaryocyte formation. In addition, HBJ127 can enhance expression of the mannose receptor on the surface of monocytes derived from healthy humans. HBJ127 shows positive staining of murine L929 cells transiently expressing human CD98 heavy chain in IF studies. The antibody can also be used to detect CD98 heavy chain by ELISA.

Restrictions: For Research Use only

Handling

Concentration: 1 mg/mL

Buffer: PBS with 0.02 % Proclin 300.

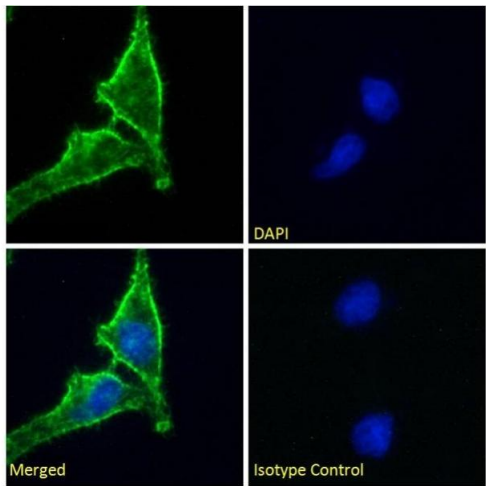
Preservative: ProClin

Precaution of Use: This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Handling

Storage:	4 °C,-20 °C
Storage Comment:	Store at 4°C for up to 3 months. For longer storage, aliquot and store at -20°C.

Images



Immunofluorescence

Image 1. Immunofluorescence staining of fixed HeLa cells with anti-CD98 heavy chain antibody HBJ127. Immunofluorescence analysis of paraformaldehyde fixed HeLa cells on Shi-fix™ coverslips, permeabilized with 0.15 % Triton and stained with the chimeric mouse IgG1 version of HBJ127 (ABIN7072403) at 10 µg/mL for 1h followed by Alexa Fluor®488 secondary antibody (2 µg/mL), showing membrane staining. The nuclear stain is DAPI (blue). Panels show from left-right, top-bottom ABIN7072403, DAPI, merged channels and an isotype control. The isotype control was stained with an unknown specificity antibody (ABIN5668079) followed by Alexa Fluor®488 secondary antibody.